ELECTRICAL MECHANIC APPRENTICE

The eligible list resulting from this examination may be used to fill similarly rated positions in the Department of Public Works.

***IMPORTANT**:* Applicants for this position are expected to have the aptitude, interest, desire and commitment to successfully complete a four year (8,320 hour) apprenticeship program leading to status with the City as an Electrical Mechanic. Appointed candidates for this position must complete a journeyman Electrical Mechanic exam with a passing grade before final appointment to journeyman Electrical Mechanic status.

In addition to on-the-job training, the apprenticeship program requires the successful completion of electrical apprenticeship classes at Milwaukee Area Technical College (MATC). Satisfactory progress must be maintained/demonstrated in all aspects of the program during the entire four year apprenticeship period.

PURPOSE & ESSENTIAL FUNCTIONS: Under the direction and guidance of designated Electrical Mechanics, an Electrical Mechanic Apprentice performs duties relating to installing, repairing and maintaining the following City electrical systems and equipment for Street Lighting, Traffic Control, Communications, Facilities, and Water/Sewer Instrumentations:

- ❖ Overhead wire, cables, transformers and associated accessories;
- ❖ Underground conduits, manholes, wires, cables, transformers, high voltage splices, associated switchgear, and related equipment;
- ❖ Concrete, aluminum, steel and wood poles, and other equipment used for street and recreational lighting, traffic control, and other electrical systems;
- ❖ Fire alarm, telephone systems, fiber optics, electronic, computerized, monitoring/control and solid state equipment used for communications, traffic and other systems;
- ❖ Electrical lighting, wiring and power equipment serving buildings, bridges and other municipal structures and
- ❖ Other electrical systems and associated equipment as assigned.

In addition, maintenance repair shop duties include assembly and fabrication of control mechanisms; performing non-technical maintenance work on street lighting, traffic and communications systems, such as lamp replacement, washing, cleaning contacts, and minor repairs; and performing other related duties as required. Position also drives or operates CDL/non-CDL vehicles, including crew trucks, bucket trucks, etc.

NOTE: An Electrical Mechanic Apprentice must be available for emergency call-in work, as needed. Evening and weekend work may be assigned on a rotating schedule.

MINIMUM REQUIREMENTS:

Note: An Electrical Mechanic Apprentice must complete the required coursework at MATC within timeframes established by the Department of Public Works and must at least receive a grade of "C" for each course. Failure to successfully complete the required coursework may result in termination.

1. Valid driver's license at time of appointment and while employed.
2. Valid Commercial Driver's License (CDL) A, B, or C. Covering general, air brakes and combination sections within six (6) months of appointment and throughout employment.
3. Must not be color-blind due to use of color-coded wiring system(s).
4. Residence in the city of Milwaukee at time of appointment.

REQUIRED SKILLS, ABILITIES, & QUALIFICATIONS:

- ❖ Ability and willingness to work at heights of up to 100 feet and in confined underground spaces; climb up and down ladders, etc.; and lift , move or transfer equipment or materials weighing up to 100 pounds.
- ❖ Ability to understand moderately complex reading material and instructions.
- ❖ Ability to identify basic hand tools and their uses.
- ❖ Ability to use hands (or learn to use hands) in working with hand tools, electrical wires, equipment and machinery.
- ❖ Health and stamina necessary to perform certain outside duties under extreme weather conditions.

DESIRABLE QUALIFICATIONS:

1. High school diploma or GED.
2. Successful completion of at least one year of math (algebra or geometry) and one year of science (physics or chemistry).
3. Prior experience and/or training in assisting with the installation, maintenance or repair of electrical equipment.

03-093--SCS 11/21/03